

#### ABSTRACT OF THE DISCLOSURE

A data processing system includes an application unit including a force pattern calculating section and a data processing section. The force pattern calculating section analyzes screen definition data for defining display screen data which is generated by the data processing section, determines a force pattern based upon the disposition of display elements, such as buttons and spaces, in a display screen and based upon force patterns corresponding to the types of the display elements recorded in an object attribute table, and stores the force pattern in a force pattern table. The force pattern is applied to a user based upon an input to the display screen. A commander driver determines a force corresponding to an input from a haptic commander, and controls the haptic commander such that the determined force is applied to the user.